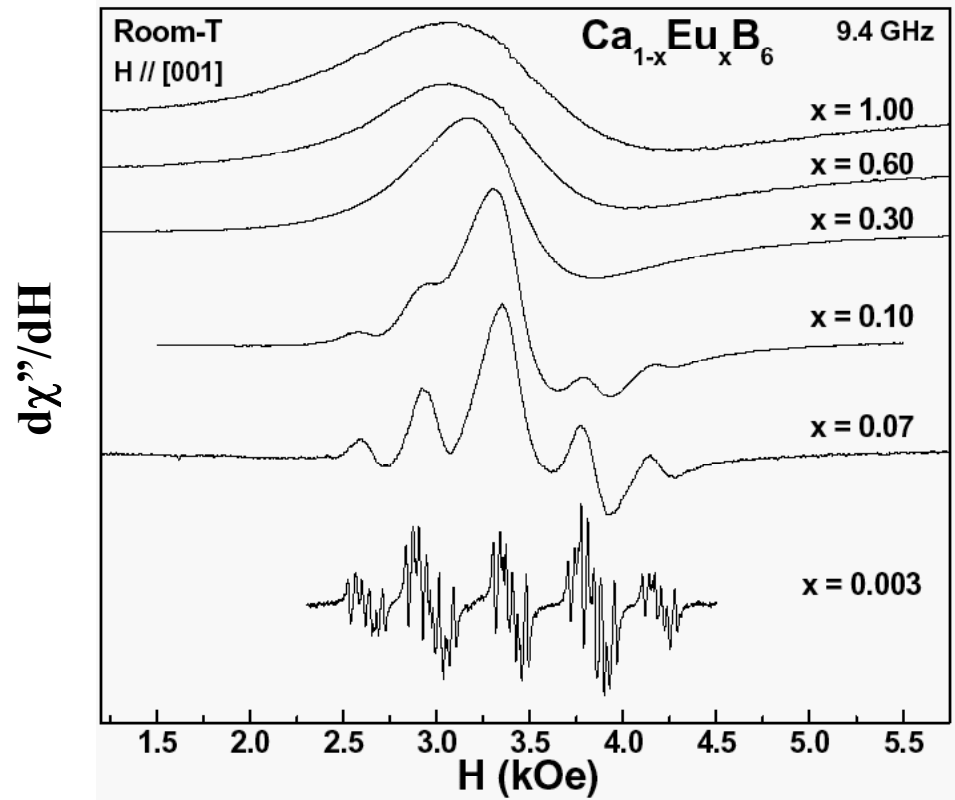


Study of the Magnetic Properties of Some Strongly Correlated Electron Systems

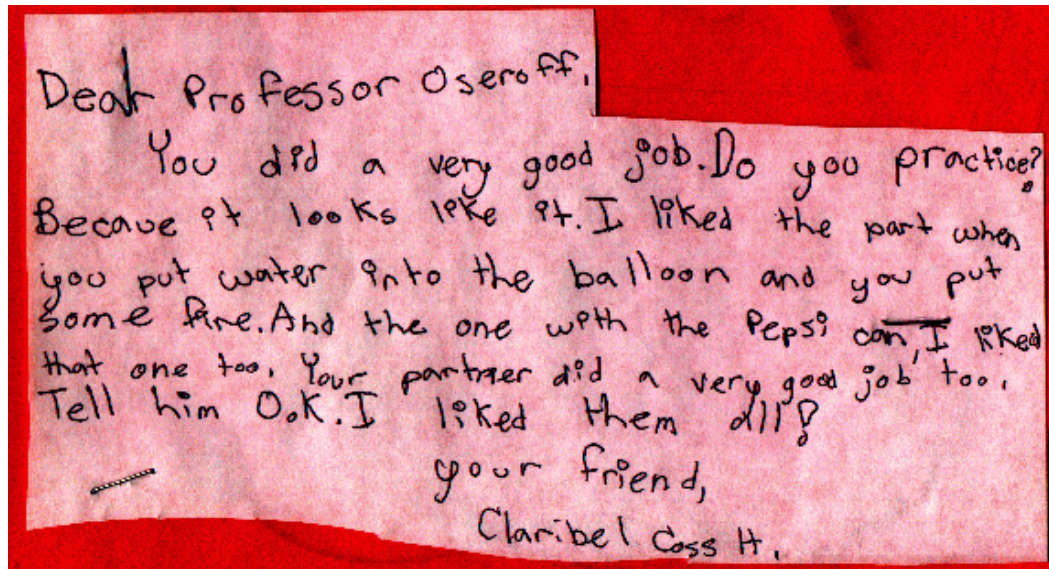
Saul Oseroff, San Diego State University, DMR-0102235

We studied the system $\text{Ca}_{1-x}\text{R}_x\text{B}_6$ ($\text{R} = \text{Eu}, \text{Gd}, \text{La}$). The figure shows the EPR spectra in which a continuous evolution of the semi-metallic character of $\text{Ca}_{1-x}\text{R}_x\text{B}_6$ as a function of Eu concentration can be observed. A metallic-like line shape is seen for $x > 0.1$, a value close to the percolation threshold if next-to-nearest neighbors are included.



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The PI has continued to be involved in developing new approaches to presenting physics to K-12 students. He regularly delivers "guest lectures" at schools, in which, through simple experiments, he presents physics as an exciting component of everyday life.

Image Caption: A sample letter from a third grade student.